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Form PTO-1449 (Modified)

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
 (Use several sheets if necessary)

Atty. Docket No.  
1856-23900  
(9602.0-01)

Serial No.  
10/023,258

Applicant  
**Jianping ZHANG et al.**

Filing Date  
December 14, 2001

Group  
1764

OFFICE OF THE  
FEB 26 2003

REFERENCE DESIGNATION OF PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
AP	AA	5,252,613	10/12/1993	CHANG et al.	518	700	12/18/1992
AP	AB	5,382,748	01/17/1995	BEHRMANN et al.	585	899	12/18/1992
AP	AC	5,348,982	09/20/1994	HERBOLZHEIMER et al.	518	700	05/20/1993
AP	AD	5,961,933	10/05/1999	CASANAVE et al.	422	211	07/28/1997
AP	AE	6,060,524	05/09/2000	CASANAVE et al.	518	706	01/11/1999
AP	AF	6,156,809	12/05/2000	CLARK et al.	518	719	04/21/1999
AP	AG	6,403,660 B1	06/11/2002	ESPINOZA et al.	518	700	12/05/2000

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	Translation YES NO

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

AP	AH	Article entitled: " <u>Hydrodynamic characterization of slurry bubble-column reactors for Fischer-Tropsch synthesis</u> ," by N.B. Jackson et al, Advanced Energy Technology Center, Sandia National Laboratories, pp. 1226-1231 (date unknown). <u>No Date</u>
AP	AI	Article entitled: " <u>Non-isobaric bubble columns with variable gas velocity</u> ," by Wolf-Dieter Deckwer, Institute for Technische Chemier, Berlin, Chemical Engineering Science, Vol. 31, pp. 309-317, 1976.
AP	AJ	Article entitled: " <u>Analysis of the design of bubble-column reactors for Fischer-Tropsch synthesis</u> ," by David Stern et al., American Chemical Society, pp. 1213-1219, 1985.
AP	AK	Article entitled: " <u>Bubble column reactors and Fischer-Tropsch</u> ," by S.C. Saxena, Catal. Rev. - Sci. Eng., 37(2), pp. 227-309, 1995.
AP	AL	Article entitled: " <u>Gas holdup in slurry bubble columns: effect of column diameter and slurry concentrations</u> ," by Rajamani Krishna et al., AIChE. Journal, Vol. 43, No. 2, pp. 311-316, February 1997.
AP	AM	Article entitled: " <u>Fundamentals and selection of advanced Fischer-Tropsch reactors</u> ," by S.T. Sie et al., Elsevier, Applied Catalyst A: General 186, pp. 55-70, 1999.

EXAMINER N. J. Passer

DATE CONSIDERED 1/11/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	10/023,258
Filing Date	December 14, 2001
First Named Inventor	Jianping ZHANG et al.
Group Art Unit	1764
Examiner Name	Not Known Yet
Attorney Docket Number	1856-23900

Sheet 2 of 2

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate) title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issued number(s), publisher, city and/or country where published.	T
JP	AN	Article entitled: "Dynamic simulation of bubbly flow in bubble columns," by Y. Pan et al., Pergamon, Chemical Engineering Science 54, pp. 2481-2489, 1999.	
JP	AO	Article entitled: "Numerical simulation of gas-liquid dynamics in cylindrical bubble column reactors," by Jayanta Sanyal et al., Pergamon, Chemical Engineering Science 54, pp. 5071-5083, 1999.	
JP	AP	Article entitled: "Gas holdup and mass transfer in bubble column reactors operated at elevated pressure," by H.M. Letzel et al., Pergamon, Chemical Engineering Science 54, pp. 2237-2246, 1999.	
JP	AQ	Article entitled: "Hydrodynamic simulation of methanol synthesis in gas-liquid slurry bubble column reactors," by Yuanxiang Wu et al., Pergamon, Chemical Engineering Science 55, pp. 573-587, 2000.	

Examiner  
Signature

J. Pasa

Dated  
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7/7/03

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